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IN REPLY REFER TO

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4 May 00

From: Chief of Naval Operations (N889H)
To: Commander, Naval Air Systems Command (PMA205)

REQUEST FOR APPROVAL OF PROPOSED NAVY TRAINING SYSTEMS PLAN (NTSP) FOR THE NONDESTRUCTIVE INSPECTION PROGRAM, N88-NTSP-A-50-8518C/A

(a) COMNAVAIRSYSCOM ltr 1500 Ser PMA205 of 25 Feb 00

(1) NTSP dated February 2000

1. In reply to reference (a), subject NTSP has been reviewed and is approved pending minor corrections identified in enclosure (1). The NTSP will be distributed via the OPNAV N889H (Naval Aviation Technical Training) web site (http://www.avtechtra.navy.mil). If your activity is unable to access the OPNAV web site and download the subject NTSP for review, contact ATCS Morris at DSN 757-9173, Comm: (301) 757-9173 for assistance.

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M. E. Belcher for

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Copy to:
COMNAVAIRSYSCOM (AIR-3.4.1)

APPROVED

NAVY TRAINING SYSTEM PLAN

FOR THE

NONDESTRUCTIVE INSPECTION

PROGRAM

N88-NTSP-A-50-8518B/A

MAY 2000

NONDESTRUCTIVE INSPECTION PROGRAM

EXECUTIVE SUMMARY

This Navy Training System Plan addresses manpower, personnel, and training requirements associated with the Nondestructive Inspection (NDI) Program. NDI is the practice of evaluating a part or sample of material without impairing its future usefulness. Methods of inspection include, but are not limited to, visual, optical, liquid penetrant, magnetic particle, eddy current, ultrasonic, and radiographic. Success in their use depends heavily upon intelligent application and discriminating interpretation of results. The NDI Program equipment is in the Production, Deployment, and Operational Support Phase of the Weapon System Acquisition Process.

The NDI Program is performed per the Naval Aviation Maintenance Program (NAMP), Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.2G and the NDI Methods Manual (NA 01-1A-16) at the organizational, intermediate, and depot levels of maintenance. There are three basic categories of NDI personnel: NDI Operator, NDI Technician, and NDI Specialist. NDI Operators are Navy and Marine Corps maintenance personnel or civil service personnel who have successfully completed required training and are certified to perform limited NDI tasks. NDI Technicians are Navy and Marine Corps personnel, normally attached to Intermediate Maintenance Activities, assigned Navy Enlisted Classification 7225 or Military Occupational Specialty 6044, qualified and certified to perform liquid penetrant, magnetic particle, eddy current, ultrasonic, and radiographic methods of NDI. NDI Specialists are military or civil service personnel, designated by the applicable Aircraft Controlling Custodian (ACC)/Type Commander (TYCOM), authorized to provide refresher and specialized training and triennial recertification of NDI Technicians. Specialists are also authorized to train and certify NDI Operators.

The Aircraft Nondestructive Inspection Technician Class C2 course (Course Identification Number (CIN) C-603-3191), located at Naval Aviation Technical Training Center Pensacola, Florida, provides NDI Technician training for career designated Navy Aviation Structural Mechanics (Structures) and Marine Corps (Structures Mechanics) personnel in paygrades E-4 and above, and civil service personnel. NDI Operator training in liquid penetrant, magnetic particle, and eddy current methods, refresher training, and recertification of NDI Technicians is provided by the appropriate Naval Aviation Depots (NAVAVNDEPOT) or ACC/TYCOM designated NDI Specialists. NDI Technicians failing to maintain proficiency for one year or more require update training by NAVAVNDEPOTs or ACC/TYCOM designated NDI Specialists prior to recertification. NDI Technicians failing to maintain proficiency for three years or more are required to attend the Non-Destructive Inspection Technician Recertification course (CIN N-701-0005) provided by NAVAVNDEPOT North Island, California; NAVAVNDEPOT Cherry Point, North Carolina; NAVAVNDEPOT Jacksonville, Florida; or Naval Shipyard Portsmouth, Virginia, prior to recertification.

NONDESTRUCTIVE INSPECTION PROGRAM

TABLE OF CONTENTS

		Page
Executive Summary		i
List of Acronyms		iii
Preface		v
PART I - TECHNICAL PROGRAM DATA		
A.	Nomenclature-Title-Program	I-1
B.	Security Classification	I-1
C.	Manpower, Personnel, and Training Principals	I-1
D.	System Description	I-2
E.	Developmental Test and Operational Test	I-3
F.	Aircraft and/or Equipment/System/Subsystem Replaced	I-4
G.	Description of New Development	I-4
H.	Concepts	I-9
I.	Onboard (In-Service) Training	I-12
J.	Logistics Support	I-13
K.	Schedules	I-14
L.	Government Furnished Equipment and Contractor Furnished Equipment Training Requirements	I-14
M.	Related NTSPs and Other Applicable Documents	I-14
PART II - BILLET AND PERSONNEL REQUIREMENTS		II-1
PART III - TRAINING REQUIREMENTS		III-1
PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS		IV-1
PART V - MPT MILESTONES		V-1
PART VI - DECISION ITEMS/ACTION REQUIRED		VI-1
PART VII - POINTS OF CONTACT		VII-1

NONDESTRUCTIVE INSPECTION PROGRAM

LIST OF ACRONYMS

ACC	Aircraft Controlling Custodian
AIMD	Aircraft Intermediate Maintenance Department
AMS	Aviation Structural Mechanic (Structures)
CIN	Course Identification Number
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CMC	Commandant of the Marine Corps
CNO	Chief of Naval Operations
COMNAVAIRESFOR	Commander, Naval Air Reserve Force
FY	Fiscal Year
Hz	Hertz
IMA	Intermediate Maintenance Activity
KHz	Kilohertz
MALS	Marine Aviation Logistics Squadron
MEASURE	Metrology Automated System for Uniform Recall and Reporting
MOS	Military Occupational Specialty
MR	Milliren
MRC	Maintenance Requirements Card
NA	Not Applicable
NAS	Naval Air Station
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVAVNDEPOT	Naval Aviation Depot
NDI	Nondestructive Inspection
NEC	Navy Enlisted Classification
NSYD	Naval Shipyard
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction

NONDESTRUCTIVE INSPECTION PROGRAM

LIST OF ACRONYMS

OPO	OPNAV Principal Official
PMA	Program Manager, Air
TD	Training Device
TECHEVAL	Technical Evaluation
TFMMS	Total Force Manpower Management System
TFS	Total Force Structure
TTE	Technical Training Equipment
TYCOM	Type Commander
VAC	Volts Alternating Current
VDC	Volts Direct Current

NONDESTRUCTIVE INSPECTION PROGRAM

PREFACE

This Approved Navy Training System Plan (NTSP) for the Nondestructive Inspection (NDI) Program is an update of the NDI Draft NTSP, A-50-8518B/D, dated October 1999. This update was prepared by the Naval Air Systems Command within guidelines set forth in Office of the Chief of Naval Operations Instruction (OPNAVINST) 1500.76 and the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97. This document outlines the NDI program vice an individual breakdown of NDI equipment. It includes current information on the fleet NDI equipment.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** Nondestructive Inspection (NDI) Program

2. **Program Element.** 84743N

B. SECURITY CLASSIFICATION

1. **System Characteristics** ..... Unclassified
2. **Capabilities** ..... Unclassified
3. **Functions** ..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N881B)

OPO Resource Sponsor ..... CNO (N881B)

Marine Corps Program Sponsor ..... CMC (ASL-33)

Developing Agency ..... NAVAIRSYSCOM (PMA205)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET
COMNAVAIRESFOR

Training Support Agency ..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training ..... CNO (N7)

Commander, Reserve Program Manager ..... COMNAVAIRESFOR (N4213)

Marine Corps Force Structure ..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. NDI is the practice of evaluating a part or sample of material without impairing its future usefulness. Different components and materials require different NDI methods, and the type of defect or flaw determines the NDI procedure to be used. Some components can be inspected on the aircraft, while others must be removed.

The Navy has long maintained an NDI program to perform on-site, in-service inspections of critical airframe and engine components for service induced damage and defects. NDI equipment is used by Intermediate Maintenance Activities (IMA) ashore and afloat to conduct NDI of aircraft structures, components, engines, and support equipment and is capable of detecting and evaluating defects such as disbonds, cracks, porosity, water pockets, fuel leaks, foreign inclusions, and corrosion. NDI equipment can also be used for sorting and classifying material, measuring thickness of coatings on ferrous and nonferrous metals, gauging thickness of materials to determine the location of defects, and measuring the physical thickness of test objects.

The use of NDI will increase significantly with the fleet introduction of the F/A-18 E/F and V-22 aircraft. This new generation of aircraft uses composite structural materials that require special considerations for maintenance and NDI.

The NDI requirements for in-service aircraft originate in Safety Bulletins or unsatisfactory reports, and are incorporated in existing Maintenance Requirements Cards (MRC). New aircraft weapon systems are supplied with NDI manuals that serve as guidelines for NDI. There are three distinct steps involved in NDI for damage assessment. The first step is to locate the damage. The second step, required to arrive at the method of repair, is to evaluate the defect to determine its type, depth, and size. The third step is to reevaluate after defect removal, as applicable, the area under repair for first layer damage and masked or hidden damage. Post-repair inspection and quality assurance, again utilizing NDI methods, are required to ensure the integrity of the repair.

The NDI methods used to detect service induced damage and defects include the following:

a. Fluorescent Liquid Penetrant. This inspection technique is a method for finding small discontinuities on the surface of solid and essentially nonporous materials. The method uses a chemical that fluoresces under ultraviolet light. Surface cracks, laps, porosity, shrinkage areas, laminations, and similar discontinuities can be detected.

b. Magnetic Particle. This inspection technique is a method of locating discontinuities at or near the surface in ferromagnetic materials. Discontinuities that lie in a direction generally transverse to the direction of the magnetic field will cause a leakage field at and above the surface of the part. The discontinuity is detected by using finely divided ferromagnetic particles applied over the surface. The particles are gathered and held by the leakage field and form an outline of the discontinuity indicating location, size, shape, and extent.

c. Eddy Current. This inspection method is used to detect a wide variety of physical, structural, and metallurgical conditions in ferromagnetic and nonferromagnetic materials. It is also used to inspect fastener holes and aircraft wheels for cracks and corrosion. Eddy current (electromagnetic) variations in the flow of an electric current produce indications of defects as the current passes through the part being tested.

d. Ultrasonic. This inspection method is used to detect and characterize internal flaws, detect surface flaws, define bond characteristics, measure thickness and extent of corrosion, and detect flaws in composite materials. These methods use ultrasonic sound waves passed through the part to produce indications of cracks, laminations, pores, bonding faults, inclusions, or other discontinuities. Pulse-echo methods are those in which a pulsed ultrasonic beam is introducted into the part to be inspected and the signals (echos) returning to the surface of the part are monitored either by the interrogating transducer or a second transducer. Contact methods are those wherein the piezoelectric transducers are normally held in contact with the part surface by hand.

e. Radiography. This inspection method is used to detect internal flaws located well below the surface. Radiography is a technique which involves passing electromagnetic radiation (X-rays) through an object to produce indications on film (e.g., a photograph of the internal characteristics of the part). Defects causing X-ray absorption changes will be identifiable on the X-ray film.

f. Visual or Optical. Visual or optical inspection, except in transparent materials, is used to find flaws evident at the surface. Internal flaws such as delaminations or unbonds are not detectable.

g. Leak Detection. This is the determination of the rate at which a liquid or gas will penetrate from inside a "tight" component or assembly to the outside (or vice versa) as a result of a pressure differential between the two regions. Leak detectors are portable, self-contained, stand-alone instruments, capable of detecting leaks in a system pressurized with helium, hydrogen, or fluorocarbon refrigerants at a specified rate, or through ultrasonic techniques.

h. Hardness Test. Hardness testing equipment is of the static identation type in which a ball, cone, or pyramid is forced into the surface of the metal being tested. The relationship of the area to the depth of indentation is the measure of hardness.

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Operational Evaluation is not required for NDI equipment. Technical Evaluation (TECHEVAL) on all NDI equipment is conducted by the Naval Air Warfare Center Aircraft Division, Support Equipment and Technical Evaluation Branch, Patuxent River, Maryland.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. NA

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. There have been no new developments in the NDI program. The following is a description of current NDI equipment in the Navy and Marine Corps inventory:

a. Fluorescent Penetrant Inspection Unit (ZA28W). The ZA28W is a water wash type-testing unit using fluorescent penetrant material. It is used specifically for the inspection of small and medium sized parts and tools. The unit quickly and positively marks surface cracks and other defects in ferrous and nonferrous metals, plastics, ceramics, and other nonporous solids.

b. Fluorescent Penetrant Inspection Kit, Portable (ZA-43). The portable fluorescent penetrant inspection kit is a self-contained kit for nondestructive testing of nonporous materials such as metal, ceramic, and thermo-setting plastic parts to determine material defects open to the surface. It is capable of detecting such defects in all types of shapes including castings, forgings, machined parts, tubing, and weldments.

c. Magnetic Particle Inspection Unit, Installed (Stationary) (H-710G/H-810G). The H-710G/H-810G consists of a basic wet method magnetic particle inspection unit and several accessories. Low-voltage, high-amperage direct current for magnetization and demagnetization is obtained by full-wave rectification of three-phase alternating current.

d. Magnetic Particle Inspection Unit, Portable (1668AS100-1). The 1668AS100-1 is designed to deliver up to 4000 amperes of Alternating Current, or half-wave Direct Current for the detection of surface or subsurface cracks in ferromagnetic material.

e. Magnetic Particle Inspection Probe (DA-200). The probe is a portable, self-contained electronic instrument that creates magnetic fields in ferromagnetic materials and locates surface and subsurface defects.

f. Eddy Current Flaw Detector (PD214). The PD214 is a portable, microprocessor-based, programmable eddy current instrument. It is housed in a military case with a battery package for field use. Its wide frequency range, 50-60 Hertz (Hz) to 3 Megahertz (MHz), covers applications from detection of subsurface second layer flaws in aluminum to recording minute flaws in titanium alloys.

g. Ultrasonic Flaw Detector (USN52). The Ultrasonic Flaw Detector Set USN52 is used for nondestructive flaw testing and thickness gauging. The unit is lightweight and portable and can be used for all inspections.

h. MXU-714/E Digital Ultrasonic Thickness Gauge (NOVA 200-MA). The NOVA 200-MA is a solid-state portable instrument that measures wall thickness, or sectional

thickness of materials. Access to only one surface is required for contacting a transducer to the test surface and observing the material thickness readout on the Light Emitting Display.

i. MXU-712/E Densitometer (301). The MXU-712/E is a highly accurate compact modularized unit that measures the density of X-ray film. This measurement assures clarity of exposed X-ray film.

j. Radiac Meter (IM231PD). The IM231PD is a battery operated, portable survey meter designed to measure alpha, beta, gamma, and X-ray radiation of low, medium, and high intensity.

k. Stereo Zoom Microscope (564C21145575). The Stereo Zoom Microscope has a magnification range of 0.7X through 4.2X without auxiliary lenses. This microscope is used for visual inspection.

l. Optical Micrometer Kit (966A1). The 966A1 measures the depth of scratches, cracks, blind holes, corrosion, dents, pits, and the height of spurs and other small protrusions in all materials.

m. Rigid Fiber Optic Borescope (LIC06154). The Rigid Fiber Optic Borescope is a precision optical instrument with self-contained illumination used for visually inspecting a variety of internal surfaces and inaccessible areas, particularly inside aircraft engines.

n. Flexible Fiber Optic Borescope (LIC06127). The Flexible Fiber Optic Boresight consists of a fiber bundle assembly and eyepiece assembly, which contains the optical system and internal portion of the light guide system. The flexible probe assembly contains a lens and two fiber optic bundles; one bundle is for light transmission, and the other is for image transmission.

o. Composite Bond Tester (1877AS100-1). This unit is used on aircraft to evaluate the integrity of bonded joints between composite materials.

p. Ultrasonic Leak Detector (4918A). The 4918A lets the operator hear the hissing sound associated with leaks by converting ultrasonic noises, created by gases and fluids under pressure passing through a restricted opening, into human hearing range. A probe (ultrasonic microphone) detects these signals. Frequency response is 36 kilohertz (KHz) to 44 KHz. Frequencies are converted to 100 Hz to 4 KHz audio.

q. Portable Material Hardness Tester (M-51). The unit is a lightweight instrument used to make tests based on the Rockwell hardness system. The design is similar to the Rockwell bench-type machine.

r. RO-2 Portable Ion Chamber Survey Meter (IM231BPD). The Model RO-2 is a portable air ionization chamber instrument used to detect beta, gamma, and X-ray radiation with four linear ranges of operation from 5 to 5000 Milliren (MR) per hour full scale.

s. RSO-5 Portable Ion Chamber Survey Meter (IM231APD). The RSO-5 model is an ergonomically designed and ruggedly constructed ion chamber survey meter. The instrument features an ion chamber detector; wide view meter; beta, gamma, and X-ray detection; 0-5000 MR per hour; and simple desiccant maintenance.

t. LXP-160 Portable X-Ray Unit (3-000-727). The LPX-160 is air-cooled and can operate up to 16- Kilovolts for the radiographic inspection of aircraft and ground support equipment.

2. Physical Description

TITLE	WEIGHT (POUNDS)	HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	ELECTRICAL (SYSTEM)
Fluorescent Penetrant Inspection Unit (ZA28W)	150.00	81.00	132.00	54.00	230 or 460 Volts Alternating Current (VAC), 60 Hz, single phase
Fluorescent Penetrant Inspection Kit, Portable (ZA-43)	50.00	6.13	23.00	10.19	110 VAC, 60 Hz, with 8.5 foot low power cord for black light
Magnetic Particle Inspection Unit, Installed (Stationary) (H-710G/H810G)	2275.00	62.50	97.25	31.00	230 or 460 VAC, 60 Hz, three phase
Magnetic Particle Inspection Unit, Portable (168AS100-1)	670.00	35.75	40.00	30.50	230/460 VAC, 60 Hz single phase max. amps 400
Magnetic Particle Inspection Probe (DA-200)	25.00 Carrying Case 13.00 Probe	6.00	11.50	9.50	Duty cycle is two minutes ON and two minutes OFF; 105/125 VAC, 50-60 Hz, 8 foot power cord

TITLE	WEIGHT (POUNDS)	HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	ELECTRICAL (SYSTEM)
PD214 Eddy Current Flaw Detector (TTU-507/E)	25.00	8.00	17.00	13.50	115 VAC, 60 Hz, single phase
Ultrasonic Flaw Detector (USN52)	6.00	6.00	6.00	10.00	110-220 VAC 60 Hz, or 6 ”D” size NiCad, or 6 “D” alkaline batteries
MXU-714/E Digital Ultrasonic Thickness Gauge (NOVA 200-MA)	11.00	8.88	11.00	7.88	115 VAC 50-60 Hz, portable uses a NiCad Battery Pack, 5 “D” cells, 6 Volts Direct Current (VDC)
Metallic/Non-Metallic Flaw Detector (MARK IIC)	24.00	10.00	12.00	7.00	125+/-10 VAC 60 Hz, 12 VDC battery
MXU712/E Densitometer (301)	8.50	5.25	15.00	10.25	100 VAC to 130 VAC 60 Hz, single phase
Radiac Meter (IM231PD)	4.50	8.50	14.75	4.00	Three 1.5 VDC “D” cell batteries
Stereo Zoom Microscope (564C21145575)	30.00	14.00	10.00	8.00	NA
Optical Micrometer Kit (966A1)	2.00 Carrying Case 7.00 966A1	4.50	16.00	7.75	NA

TITLE	WEIGHT (POUNDS)	HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	ELECTRICAL (SYSTEM)
Rigid Fiber Optic Borescope (LIC06154)	21.00	8.00	30.00	0.38	110 VAC 60 Hz or 110 VAC 400 Hz
Flexible Fiber Optic Borescope (LIC06127)	2.75	8.00	67.00	0.25	110 VAC, 60 Hz, or 110 VAC, 400 Hz
Composite Bond Tester (1877AS100-1)	24.00	7.00	13.00	11.00	115 VAC, 50-60 Hz, internal rechargeable lead-acid type battery
Ultrasonic Leak Detector (4918A)	11.00	8.50	11.00	9.00	Three 1.4 VDC mercury cell batteries
Portable Material Hardness Tester (M-51)	3.50	2.50	2.50	4.50	NA
RO-2 Portable Ion Chamber Survey Meter (IM231BPD)	3.80	7.88	8.31	3.88	Three NEDA1604, 9 VDC batteries
RSO-5 Portable Ion Chamber Survey Meter (IM231APD)	3.10	8.00	8.00	4.25	Single 9 VDC MN1604 battery (or two with parallel wire option)
LPX-160 portable X-Ray Unit (3-000-727)	260.00	39.00	71.00	42.00	110-220 VAC 50-60 Hz

3. New Development Introduction. NA

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. NDI on Navy and Marine Corps aircraft structures, systems, components, and support equipment is performed by NDI Operators and Technicians per OPNAVINST 4790.2G and the NDI Methods Manual (NA 01-1A-16). However, the actual repair of NDI detected defects is performed by other maintenance personnel. The IMAs are responsible for the overall readiness and maintenance of the NDI equipment. There are three basic categories of NDI personnel: NDI Operators, NDI Technicians, and NDI Specialists, as defined below.

a. NDI Operators. NDI Operators are Navy and Marine Corps aviation personnel and civil service personnel who successfully complete required training and are certified to perform limited NDI tasks. Organizational level NDI Operators normally perform only Technical Directives and liquid penetrant NDI methods. Organizational level NDI Operators may also perform specific magnetic particle and eddy current method inspection when specifically authorized by the cognizant Aircraft Controlling Custodian (ACC)/Type Commander (TYCOM). Authorization is normally granted only when organizational level activities must operate with no IMA support. Naval Aviation Depots (NAVAVNDEPOT) or ACC/TYCOM designated NDI Specialists normally provide NDI method training for NDI Operators. Recertification of NDI Operators is required annually.

b. NDI Technician. NDI Technicians are military and civilian personnel who successfully complete Course Identification Number (CIN) C-603-3191, Aircraft Nondestructive Inspection Technician Class C2. Career designated Navy Aviation Structural Mechanic (Structures) (AMS), Marine Corps Structures Mechanics, paygrades E-4 and above, and civilian personnel are eligible for the course. Military NDI Technicians, normally attached to IMAs and Marine Aviation Logistics Squadrons (MALS), are assigned Navy Enlisted Classification (NEC) 7225 or Military Occupational Specialty (MOS) 6044 and are qualified and certified to perform liquid penetrant, magnetic particle, eddy current, ultrasonic, and radiographic methods of inspection. NDI Technicians with three or more year's experience who are currently certified and perform NDI on a regular basis may be authorized by the ACC or TYCOM to train and certify NDI Operators. NDI Technicians are recertified every three years. NDI Technicians failing to maintain proficiency for one year or more require update training by NAVAVNDEPOTs, ACC, or TYCOM designated NDI Specialists prior to recertification. NDI Technicians failing to maintain proficiency for three years or more are required to attend the NAVAVNDEPOT Non-Destructive Inspection Technician Recertification course (N-701-0005) to obtain recertification.

Note: The ACC or TYCOM may waive the three-year experience requirement for NDI Technicians to train and certify NDI Operators.

c. NDI Specialists. NDI Specialists are military and civil service personnel designated by an ACC or TYCOM. NDI Specialists are authorized to provide refresher and

specialized training and triennial recertification of NDI Technicians. NDI Specialists are also authorized to train and certify NDI Operators.

2. Maintenance Concept. NDI and the maintenance or repair of inspection equipment is based on preventive and corrective maintenance procedures outlined in OPNAVINST 4790.2G, and is conducted under the three level repair concept (organizational, intermediate, and depot levels) as follows:

a. Organizational. NDI tasks are performed on a scheduled basis depending on aircraft, applicable MRCs, or scheduled maintenance (bulletin) requirements. Unscheduled NDI is conducted on a conditional basis (i.e., hard landings or excessive aerodynamic loading). NDI detected defects discovered by NDI Operators are verified by certified NDI Technicians. When an NDI task or function is beyond the capability of the organizational level NDI Operator, intermediate level NDI Technicians are authorized to provide technical assistance. No repair of NDI equipment is authorized at the organizational level, however NDI Operators are authorized to perform pre-operational and post-operational checks or inspections, and to replenish consumables.

b. Intermediate. Intermediate level NDI tasks are normally performed on components removed from the aircraft. The intermediate level NDI tasks are performed by certified NDI Technicians or NDI Operators who have received training in the specific NDI method per MRCs, Technical Directives, and technical publications. The use of visible dyes for liquid penetrant inspection must be specifically approved by the responsible engineering agency.

The intermediate level maintenance of NDI equipment is conducted by certified NDI personnel at the Aircraft Intermediate Maintenance Department (AIMD), NDI Laboratory Work Center 530, and includes periodic inspection and adjustment, and servicing and replenishment of consumables, per the Handbook of Operations and Service Instructions and applicable MRCs. Troubleshooting procedures are included in the applicable NDI equipment technical manuals. Calibration of NDI equipment is conducted at Precision Measuring Equipment, Work Center 670, per the Metrology Automated System for Uniform Recall and Reporting (MEASURE) data and procedures. Calibration to NDI reference standards prior to operation of NDI equipment is part of the inspection setup procedures. Work Center 530 may accomplish the repair and replacement of defective NDI equipment components.

c. Depot. NDI procedures are performed by qualified and certified NDI personnel. Depot level tasks include maintenance and calibration of NDI equipment (except radiographic equipment), which is beyond the capability of maintenance at the intermediate level. Depot level maintenance includes repair, overhaul, calibration, rebuilding, and refurbishing of NDI equipment and components. Defective X-ray components are repaired at the NAVAVNDEPOT Jacksonville, Florida. Maintenance, repair, and calibration of radiac equipment will be as directed in NAVSEA S0420-AA-RAD-010 and NAVSEA SE700-AA-MAN-210.

d. Interim Maintenance. NA

e. Life-Cycle Maintenance Plan. NDI Equipment falls under the normal calibration program per MEASURE. Each item's specific scheduling requirements are outlined in the Metrology Requirements Lists (METRL) (NA-17-35ATL-1).

3. Manning Concept. The NDI Program has no impact on existing manpower requirements at the organizational, intermediate, or depot level maintenance activities. Enlisted manning for intermediate maintenance activities is based on the total overall assigned workload. Skills required to support the NDI Program are considered to be within the capability of existing NECs and MOSs. Refer to Part II for existing intermediate level manpower requirements.

4. Training Concept. The overall objective of the NDI training program is to ensure the proper quantity and quality of personnel are available with the necessary skills and knowledge to safely perform aircraft maintenance related nondestructive inspections. Training qualifies operators and technicians to perform duties with minimal supervision, both ashore and afloat, under all readiness conditions.

a. Initial Training. NA

b. Follow-on Training. NDI Operator training to perform limited NDI tasks, as well as refresher training, is provided by ACC or TYCOM designated NDI Technicians and Specialists utilizing locally prepared course materials tailored to the specific task. Triennial recertification of NDI Technicians is provided by NAVAVNDEPOTs or by ACC or TYCOM designated NDI Specialists. The Aircraft Nondestructive Inspection Technician Course (C-603-3191) at Naval Air Technical Training Center (NATTC) Pensacola, Florida, provides NDI Technician training for civilian and military personnel. Navy NEC 7225 and Marine Corps MOS 6044 are earned upon successful completion of the course.

Title	**Aircraft Nondestructive Inspection Technician Class C2**
CIN …….	C-603-3191
Model Manager…	NATTC Pensacola
Description	Upon completion of this course, Navy AMSs and Marine Corps personnel with MOS 6092 (E4 to E6) will have acquired sufficient skill and knowledge to perform aircraft nondestructive inspections, without direct supervision, afloat and ashore under all readiness conditions.
Location	NATTC Pensacola
Length	102 days
RFT date	Currently Available
Skill identifier…	AMS 7225, MOS 6044

TTE/TD ……..… See Part IV.A.1 for Technical Training Equipment (TTE). Training Device (TD) is NA.

Prerequisite ..... C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Intermediate Level Strand Class A1

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AMS 7225	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Intermediate Level Strand Class A1
MOS 6044	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Intermediate Level Strand Class A1
NDI Rectification 7225	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulics) Intermediate Level Strand Class A1 ° C-603-3191, Aircraft Nondestructive Inspection Technician Class C2

d. Training Pipelines. NA

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. NA

b. Aviation Maintenance In-Service Training. NA

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. NDI Technicians failing to maintain proficiency for one year or more require update training by NAVAVNDEPOTs, or by ACC or TYCOM designated NDI Specialists prior to recertification. NDI Technicians failing to

maintain proficiency for three years or more are required to attend the NAVAVNDEPOT Non-Destructive Inspection Technician Recertification course (N-701-0005) to obtain recertification. This course is currently taught at the following locations: NAVAVNDEPOT North Island, California; NAVAVNDEPOT Cherry Point, North Carolina; NAVAVNDEPOT Jacksonville, Florida; and Naval Shipyard (NSYD) Portsmouth, Virginia.

Title	**Non-Destructive Inspection Technician Recertification**
CIN …….	N-701-0005
Model Manager…	NATTC Pensacola
Description	This course provides NDI Technicians (NEC 7225 and MOS 6044) with a review of the theory and practical application of liquid penetrant, magnetic particle, eddy current, ultrasonic, and radiography. This includes the limitations of each method, proper preparation and inspection of parts, and process control, where applicable.
Locations.....	NAVAVNDEPOT North Island NAVAVNDEPOT Cherry Point NAVAVNDEPOT Jacksonville NSYD Portsmouth
Length	12 days
RFT date	Currently available
TTE/TD	TTE for NDI Technician Recertification is the actual operational equipment (i.e., no additional equipment need for training) which is used at all NAVAVNDEPOT activities and NSYD Portsmouth.
Prerequisite	C-603-3191, Aircraft Nondestructive Inspection Technician Class C2

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. NA

2. Program Documentation. NA

3. Technical Data Plan. All technical manuals are in place at NATTC Pensacola. Refer to element IV.B.3 for a complete listing of technical manuals.

4. Test Sets, Tools, and Test Equipment. TTE for NDI training is the actual equipment. Refer to element IV.A.1.

5. Repair Parts. Repair parts and spares for NDI equipment may be obtained from the Naval Inventory Control Point, Philadelphia, Pennsylvania, through normal supply channels. Commercial Off-The-Shelf radiac equipment and parts listed in the applicable technical manuals may be obtained through open purchase. The X-ray replacement components may be obtained from the Navy Supply Center, Naval Air Station (NAS) Jacksonville, Florida, per procedures specified in OPNAVINST 4790.2G.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. NA

2. Ready For Operational Use Schedule. NA

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. NA

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Nondestructive Inspection Methods	NA 01-1A-16	USAF	Approved

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Navy, Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITIES - NAVY							
Assault Craft Unit 4	47106	1	0	0	0	0	0
HC-4	52959	1	0	0	0	0	0
HC-6	0381A	1	0	0	0	0	0
HC-8 Sea Component	55219	1	0	0	0	0	0
HM-14	53827	1	0	0	0	0	0
HM-15	55201	1	0	0	0	0	0
NAVAIRENGSTA Lakehurst	48558	1	0	0	0	0	0
NAVAIRSYSCOM	68626	1	0	0	0	0	0
NAVAIRWARCENAD Op Det	35679	1	0	0	0	0	0
NAVFORCE ACTESTRON	39785	1	0	0	0	0	0
NAVSURFWARCEN	61331	1	0	0	0	0	0
NAVTEST WINGLANT	39782	1	0	0	0	0	0
NAWCAD Patuxent River	49860	1	0	0	0	0	0
VF-201	09309	1	0	0	0	0	0
VFA-203	09030	1	0	0	0	0	0
VFA-204	09032	1	0	0	0	0	0
Assault Craft Unit 5	46587	1	0	0	0	0	0
COMFAIRWESTPAC	09356	1	0	0	0	0	0
COMNAVAIRPAC	57025	1	0	0	0	0	0
HC-11 Sea Component	42300	1	0	0	0	0	0
HC-5 IMMSD	44310	1	0	0	0	0	0
HC-5 Sea Component	52961	1	0	0	0	0	0
NAVWPN TESTRON	39787	1	0	0	0	0	0
PACMISRANFAC	0534A	1	0	0	0	0	0
VFA-204 Det Fort Worth	3234A	1	0	0	0	0	0
TOTAL:		25	0	0	0	0	0
OPERATIONAL ACTIVITIES - USMC							
HMH-361	09446	1	0	0	0	0	0
HMH-461	09582	1	0	0	0	0	0
HMH-464	53935	1	0	0	0	0	0
HMH-772	09490	1	0	0	0	0	0
HMLA-167	09898	1	0	0	0	0	0
HMLA-267	09159	1	0	0	0	0	0
HMLA-269	08998	1	0	0	0	0	0
HMLA-773	09431	1	0	0	0	0	0
HMLA-773 Det	00000	1	0	0	0	0	0
HMM-162	09492	1	0	0	0	0	0
HMM-261	09441	1	0	0	0	0	0
HMM-263	09445	1	0	0	0	0	0
HMM-264	09374	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
HMM-266	53972	1	0	0	0	0	0
HMM-268	52790	1	0	0	0	0	0
HMM-365	53923	1	0	0	0	0	0
HMM-774	09430	1	0	0	0	0	0
HMT-204	52842	1	0	0	0	0	0
HMT-302	55203	1	0	0	0	0	0
HMT-302 Navy Det	09132	1	0	0	0	0	0
HMX-1	55615	1	0	0	0	0	0
VMA-223	55156	1	0	0	0	0	0
VMA-231	52948	1	0	0	0	0	0
VMA-542	52847	1	0	0	0	0	0
VMAQ-1	41345	1	0	0	0	0	0
VMAQ-2	42362	1	0	0	0	0	0
VMAQ-3	42363	1	0	0	0	0	0
VMAQ-4	67837	1	0	0	0	0	0
VMAT-203	45483	1	0	0	0	0	0
VMFA (AW)-224	09439	1	0	0	0	0	0
VMFA (AW)-332	09501	1	0	0	0	0	0
VMFA (AW)-533	09193	1	0	0	0	0	0
VMFA-112	08954	1	0	0	0	0	0
VMFA-115	09234	1	0	0	0	0	0
VMFA-122	09407	1	0	0	0	0	0
VMFA-142	67243	1	0	0	0	0	0
VMFA-251	09241	1	0	0	0	0	0
VMFA-312	09253	1	0	0	0	0	0
VMFA-321	67235	1	0	0	0	0	0
VMGR-234	08344	1	0	0	0	0	0
VMGR-252	09387	1	0	0	0	0	0
VMGR-452	55215	1	0	0	0	0	0
VMM-162	09492	0	0	0	1	0	0
VMM-264	09374	0	0	1	0	0	0
VMM-266	53972	0	0	0	0	1	0
VMM-365	53923	0	0	0	0	0	1
VMMT-204	52842	0	1	0	0	0	0
HMH-362	09495	1	0	0	0	0	0
HMH-363	09496	1	0	0	0	0	0
HMH-366	55650	1	0	0	0	0	0
HMH-462	09349	1	0	0	0	0	0
HMH-463	90010	1	0	0	0	0	0
HMH-465	53936	1	0	0	0	0	0
HMH-466	53998	1	0	0	0	0	0
HMH-769	09487	1	0	0	0	0	0
HMLA-169	09202	1	0	0	0	0	0
HMLA-367	09079	1	0	0	0	0	0
HMLA-369	09361	1	0	0	0	0	0
HMLA-775	55252	1	0	0	0	0	0
HMLA-775 Det "A"	09415	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
HMM(T)-164	09408	1	0	0	0	0	0
HMM-161	09440	1	0	0	0	0	0
HMM-163	09405	1	0	0	0	0	0
HMM-165	09343	1	0	0	0	0	0
HMM-166	53973	1	0	0	0	0	0
HMM-262	09442	1	0	0	0	0	0
HMM-265	09404	1	0	0	0	0	0
HMM-364	09793	1	0	0	0	0	0
HMM-764	09402	1	0	0	0	0	0
HMT-301	39797	1	0	0	0	0	0
HMT-303	55176	1	0	0	0	0	0
VMA-211	09412	1	0	0	0	0	0
VMA-214	09436	1	0	0	0	0	0
VMA-311	55158	1	0	0	0	0	0
VMA-513	09231	1	0	0	0	0	0
VMFA (AW) -121	09257	1	0	0	0	0	0
VMFA (AW)-225	09232	1	0	0	0	0	0
VMFA (AW)-242	09668	1	0	0	0	0	0
VMFA-134	09365	1	0	0	0	0	0
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	1	0	0	0	0	0
VMFA-314	09230	1	0	0	0	0	0
VMFA-323	09235	1	0	0	0	0	0
VMFAT-101	09965	1	0	0	0	0	0
VMGR-152	09443	1	0	0	0	0	0
VMGR-352	09182	1	0	0	0	0	0
TOTAL:		81	1	1	1	1	1
FLEET SUPPORT ACTIVITIES - NAVY							
ABFC FM Alpha	49738	1	0	0	0	0	0
ABFC FMP MMF Hotel	68822	1	0	0	0	0	0
AIMD Sigonella Det Rota	44374	1	0	0	0	0	0
AIR 6.0 Industrial NWCF	31304	1	0	0	0	0	0
COMNAVAIRESFOR	00071	1	0	0	0	0	0
CV 67 USS John F. Kennedy	03367	1	0	0	0	0	0
CVN 65 USS Enterprise	03365	1	0	0	0	0	0
CVN 69 USS Dwight D. Eisenhower	03369	1	0	0	0	0	0
CVN 71 USS Theodore Roosevelt	21247	1	0	0	0	0	0
CVN 73 USS George Washington	21412	1	0	0	0	0	0
CVN 74 USS John C. Stennis	21847	1	0	0	0	0	0
CVN 75 USS Harry S. Truman	21853	1	0	0	0	0	0
LHA 2 USS Saipan	20632	1	0	0	0	0	0
LHA 4 USS Nassau	20725	1	0	0	0	0	0
LHD 1 USS Wasp	21560	1	0	0	0	0	0
LHD 3 USS Kearsarge	21700	1	0	0	0	0	0
LHD 5 USS Bataan	21879	1	0	0	0	0	0
LHD 6 USS Bonhomme Richard	22202	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
LHD 7 Iwo Jima	23027	1	0	0	0	0	0
MCAS Beaufort Sea Op Det	46961	1	0	0	0	0	0
MCS 12 Inchon	20009	1	0	0	0	0	0
NAF Washington DC RAIMD	44492	1	0	0	0	0	0
NAPRADET Sea Duty Naples NWCF	32177	1	0	0	0	0	0
NAS Atlanta, RAIMD	44486	1	0	0	0	0	0
NAS Brunswick, AIMD	44314	1	0	0	0	0	0
NAS Corpus Christi, AIMD	30244	1	0	0	0	0	0
NAS Jacksonville, AIMD	44319	1	0	0	0	0	0
NAS JRB Fort Worth, RAIMD	44487	1	0	0	0	0	0
NAS Keflavik, Iceland, AIMD	44335	1	0	0	0	0	0
NAS Key West, AIMD	44320	1	0	0	0	0	0
NAS New Orleans, RAIMD	44490	1	0	0	0	0	0
NAS Norfolk AIMD	44325	1	0	0	0	0	0
NAS Oceana, AIMD	44327	1	0	0	0	0	0
NAS Oceana, Sea Op Det	46963	1	0	0	0	0	0
NAS Sigonella AIMD	44330	1	0	0	0	0	0
NAS Sigonella, A/C Op Det	44378	1	0	0	0	0	0
NAS Willow Grove, RAIMD	44493	1	0	0	0	0	0
NAVAIRPRA, Det Naples	35094	1	0	0	0	0	0
NAVSTA Roosevelt Roads, AIMD	44373	1	0	0	0	0	0
NS Mayport, AIMD	45459	1	0	0	0	0	0
Adminsupu SWA	63005	1	0	0	0	0	0
CV 63 USS Kitty Hawk	03363	1	0	0	0	0	0
CV 64 USS Constellation	03364	1	0	0	0	0	0
CVN 68 USS Nimitz	03368	1	0	0	0	0	0
CVN 70 USS Carl Vinson	20993	1	0	0	0	0	0
CVN 72 USS Abraham Lincoln	21297	1	0	0	0	0	0
FMP MMF Charlie	68704	1	0	0	0	0	0
LHA 1 USS Tarawa	20550	1	0	0	0	0	0
LHA 3 USS Belleau Wood	20633	1	0	0	0	0	0
LHA 5 USS Peleliu	20748	1	0	0	0	0	0
LHD 2 USS Essex	21533	1	0	0	0	0	0
LHD 4 USS Boxer	21808	1	0	0	0	0	0
NAF Atsugi, AIMD	44323	1	0	0	0	0	0
NAF Misawa, AIMD	44331	1	0	0	0	0	0
NAS Barbers Point, AIMD	44312	1	0	0	0	0	0
NAS Fallon, AIMD	44317	1	0	0	0	0	0
NAS Lemoore, Sea Op Det	46964	1	0	0	0	0	0
NAS Lemoore, AIMD	44321	1	0	0	0	0	0
NAS North Island, AIMD	44326	1	0	0	0	0	0
NAS Point Mugu, AIMD	44328	1	0	0	0	0	0
NAS Whidbey Island, AIMD	44329	1	0	0	0	0	0
NAS Whidbey Island, Van Op Det	31179	1	0	0	0	0	0
NAVAIRES RAIMD, Santa Clara	44489	1	0	0	0	0	0
NAVSUPPFAC Diego Garcia, AIMD	44337	1	0	0	0	0	0
NAWS A/C Op Det China Lake	47677	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
TOTAL:		65	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - USMC							
H&HS MCAS Beaufort	02031	1	0	0	0	0	0
MALS-14	09114	1	0	0	0	0	0
MALS-26	09167	1	0	0	0	0	0
MALS-29	52841	1	0	0	0	0	0
MALS-31	09131	1	0	0	0	0	0
MALS-41	03007	1	0	0	0	0	0
MALS-42	09513	1	0	0	0	0	0
MALS-49	55555	1	0	0	0	0	0
Marine Aviation Det, Pax	00000	1	0	0	0	0	0
H&HS MCAS Iwakuni	62613	1	0	0	0	0	0
H&HS MCAS Yuma	02230	1	0	0	0	0	0
MALS-11	09111	1	0	0	0	0	0
MALS-12	09112	1	0	0	0	0	0
MALS-13	55585	1	0	0	0	0	0
MALS-16	55583	1	0	0	0	0	0
MALS-36	09136	1	0	0	0	0	0
MALS-39	09808	1	0	0	0	0	0
MALS-46	03028	1	0	0	0	0	0
MALSE Kaneohe Bay	09382	1	0	0	0	0	0
TOTAL:		19	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - NAVY					
Assault Craft Unit 4, 47106					
ACDU	0	4	AMS	7225	8303
ACTIVITY TOTAL:	0	4			
HC-4, 52959					
ACDU	0	6	AMS	7225	8303
ACTIVITY TOTAL:	0	6			
HC-6, 0381A					
ACDU	0	8	AMS	7225	8379
HC-6, 0381A, FY00 Increment					
ACDU	0	2	AMS	7225	8378
ACTIVITY TOTAL:	0	10			
HC-8 Sea Component, 55219					
ACDU	0	8	AMS	7225	8379
ACTIVITY TOTAL:	0	8			
HM-14, 53827					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
HM-15, 55201					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAVAIRENGSTA Lakehurst, 48558					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAVAIRSYSCOM, 68626					
ACDU	0	1	AMS	7225	9549
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAVAIRWARCENAD Op Det, 35679					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAVFORCE ACTESTRON, 39785					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
NAVSURFWARCEN, 61331					
ACDU	0	1	AMS	7225	8303
ACTIVITY TOTAL:	0	1			
NAVTEST WINGLANT, 39782					
ACDU	0	6	AMS	7225	
ACTIVITY TOTAL:	0	6			
NAWCAD Patuxent River, 49860					
ACDU	0	1	AMS	7225	
NAWCAD Patuxent River, 49860, FY00 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	2			
VF-201, 09309					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
VFA-203, 09030					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
VFA-204, 09032					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
Assault Craft Unit 5, 46587					
ACDU	0	3	AMS	7225	
ACTIVITY TOTAL:	0	3			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
COMFAIRWESTPAC, 09356					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
COMNAVAIRPAC, 57025					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
HC-11 Sea Component, 42300					
ACDU	0	9	AMS	7225	8379
ACTIVITY TOTAL:	0	9			
HC-5 IMMSD, 44310					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
HC-5 Sea Component, 52961					
ACDU	0	12	AMS	7225	8379
HC-5 Sea Component, 52961, FY00 Increment					
ACDU	0	3	AMS	7225	8378
ACTIVITY TOTAL:	0	15			
NAVWPN TESTRON, 39787					
ACDU	0	3	AMS	7225	
ACTIVITY TOTAL:	0	3			
PACMISRANFAC, 0534A					
ACDU	0	1	AMS	7225	
	0	1	AMS	7225	8377
ACTIVITY TOTAL:	0	2			
VFA-204 Det Fort Worth, 3234A, FY00 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
HMH-361, 09446					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-461, 09582					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-464, 53935					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-772, 09490					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMLA-167, 09898					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-267, 09159					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-269, 08998					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-773, 09431					
USMC	0	1		6044	6092
AR	0	3		6092	6044
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMLA-773 Det, 00000					
USMC	0	1		6044	6092
AR	0	1		6092	6044
ACTIVITY TOTAL:	0	2			
HMM-162, 09492					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-261, 09441					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-263, 09445					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-264, 09374					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-266, 53972					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-268, 52790					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-365, 53923					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-774, 09430					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMT-204, 52842					
USMC	0	1		6094	6044
ACTIVITY TOTAL:	0	1			
HMT-302, 55203					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMT-302 Navy Det, 09132					
ACDU	0	2	AMS	7232	7225
ACTIVITY TOTAL:	0	2			
HMX-1, 55615					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
VMA-223, 55156					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMA-231, 52948					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMA-542, 52847					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMAQ-1, 41345					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMAQ-2, 42362					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMAQ-3, 42363					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMAQ-4, 67837					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMAT-203, 45483					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA (AW)-224, 09439					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA (AW)-332, 09501					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA (AW)-533, 09193					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-112, 08954					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-115, 09234					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-122, 09407					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-142, 67243					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-251, 09241					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-312, 09253					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-321, 67235					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMGR-234, 08344					
USMC	0	1		6044	6092
AR	0	1		6092	6044
ACTIVITY TOTAL:	0	2			
VMGR-252, 09387					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMGR-452, 55215					
USMC	0	1		6044	6092
AR	0	1		6092	6044
ACTIVITY TOTAL:	0	2			
VMM-162, 09492, FY02 Increment					
USMC	0	1		6092	6044
ACTIVITY TOTAL:	0	1			
VMM-264, 09374, FY01 Increment					
USMC	0	1		6092	6044
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMM-266, 53972, FY03 Increment					
USMC	0	1		6092	6044
ACTIVITY TOTAL:	0	1			
VMM-365, 53923, FY04 Increment					
USMC	0	1		6092	6044
ACTIVITY TOTAL:	0	1			
VMMT-204, 52842, FY00 Increment					
USMC	0	1		6092	6044
	0	3		6155	6044
VMMT-204, 52842, FY04 Increment					
USMC	0	2		6155	6044
ACTIVITY TOTAL:	0	6			
HMH-362, 09495					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-363, 09496					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-366, 55650					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-462, 09349					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-463, 90010					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-465, 53936					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMH-466, 53998					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMH-769, 09487					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMLA-169, 09202					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-367, 09079					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-369, 09361					
USMC	0	3		6044	6092
ACTIVITY TOTAL:	0	3			
HMLA-775, 55252					
USMC	0	1		6044	6092
AR	0	3		6092	6044
ACTIVITY TOTAL:	0	4			
HMLA-775 Det "A", 09415					
USMC	0	1		6044	6092
AR	0	1		6092	6044
ACTIVITY TOTAL:	0	2			
HMM(T)-164, 09408					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-161, 09440					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMM-163, 09405					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-165, 09343					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-166, 53973					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-262, 09442					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-265, 09404					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-364, 09793					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMM-764, 09402					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMT-301, 39797					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
HMT-303, 55176					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMA-211, 09412					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMA-214, 09436					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMA-311, 55158					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMA-513, 09231					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMFA (AW) -121, 09257					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA (AW)-225, 09232					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA (AW)-242, 09668					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-134, 09365					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-212, 09434					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
VMFA-232, 09242					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-314, 09230					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFA-323, 09235					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
VMFAT-101, 09965					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMGR-152, 09443					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
VMGR-352, 09182					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
FLEET SUPPORT ACTIVITIES - NAVY					
ABFC FM Alpha, 49738					
TAR	0	1	AMS	7225	7222
	0	1	AMS	7225	7232
SELRES	0	1	AMS	7225	
ACTIVITY TOTAL:	0	3			
ABFC FMP MMF Hotel, 68822					
TAR	0	2	AMS	7225	
	0	1	AMS	7225	7222
	0	1	AMS	7225	7232
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AIMD Sigonella Det Rota, 44374					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
AIR 6.0 Industrial NWCF, 31304					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
COMNAVAIRESFOR, 00071					
TAR	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
CV 67 USS John F. Kennedy, 03367					
ACDU	0	1	AMS	7225	
TAR	0	1	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 65 USS Enterprise, 03365					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 69 USS Dwight D. Eisenhower, 03369					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 71 USS Theodore Roosevelt, 21247					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 73 USS George Washington, 21412					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 74 USS John C. Stennis, 21847					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
CVN 75 USS Harry S. Truman, 21853					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHA 2 USS Saipan, 20632					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHA 4 USS Nassau, 20725					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 1 USS Wasp, 21560					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 3 USS Kearsarge, 21700					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 5 USS Bataan, 21879					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 6 USS Bonhomme Richard, 22202					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 7 Iwo Jima, 23027					
ACDU	0	1	AMS	7225	
LHD 7 Iwo Jima, 23027, FY01 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	2			
MCAS Beaufort Sea Op Det, 46961					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MCS 12 Inchon, 20009					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAF Washington DC RAIMD, 44492					
TAR	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
NAPRADET Sea Duty Naples NWCF, 32177					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAS Atlanta, RAIMD, 44486					
TAR	0	2	AMS	7225	
	0	1	AMS	7232	7225
ACTIVITY TOTAL:	0	3			
NAS Brunswick, AIMD, 44314					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			
NAS Corpus Christi, AIMD, 30244					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAS Jacksonville, AIMD, 44319					
ACDU	0	5	AMS	7225	
ACTIVITY TOTAL:	0	5			
NAS JRB Fort Worth, RAIMD, 44487					
TAR	0	2	AMS	7225	
NAS JRB Fort Worth, RAIMD, 44487, FY00 Increment					
TAR	0	1	AMS	7225	
	0	1	AMS	7232	7225
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Keflavik, Iceland, AIMD, 44335					
ACDU	0	2	AMS	7225	7232
SELRES	0	1	AMS	7225	
ACTIVITY TOTAL:	0	3			
NAS Key West, AIMD, 44320					
ACDU	0	3	AMS	7225	
ACTIVITY TOTAL:	0	3			
NAS New Orleans, RAIMD, 44490					
TAR	0	3	AMS	7225	
	0	1	AMS	7232	7225
ACTIVITY TOTAL:	0	4			
NAS Norfolk, AIMD, 44325					
ACDU	0	11	AMS	7225	
ACTIVITY TOTAL:	0	11			
NAS Oceana, AIMD, 44327					
ACDU	0	16	AMS	7225	
ACTIVITY TOTAL:	0	16			
NAS Oceana, Sea Op Det, 46963					
ACDU	0	13	AMS	7225	
ACTIVITY TOTAL:	0	13			
NAS Sigonella AIMD, 44330					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			
NAS Sigonella, A/C Op Det, 44378					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
NAS Willow Grove, RAIMD, 44493					
TAR	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAVAIRPRA, Det Naples, 35094					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAVSTA Roosevelt Roads, AIMD, 44373					
ACDU	0	1	AMS	7225	
	0	2	AMS	7225	7232
ACTIVITY TOTAL:	0	3			
NS Mayport, AIMD, 45459					
ACDU	0	3	AMS	7225	
ACTIVITY TOTAL:	0	3			
Adminsupu SWA, 63005					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
CV 63 USS Kitty Hawk, 03363					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			
CV 64 USS Constellation, 03364					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 68 USS Nimitz, 03368					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 70 USS Carl Vinson, 20993					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
CVN 72 USS Abraham Lincoln, 21297					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FMP MMF Charlie, 68704					
ACDU	0	1	AMS	7222	7225
	0	1	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHA 1 USS Tarawa, 20550					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHA 3 USS Belleau Wood, 20633					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHA 5 USS Peleliu, 20748					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 2 USS Essex, 21533					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
LHD 4 USS Boxer, 21808					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAF Atsugi, AIMD, 44323					
ACDU	0	3	AMS	7225	
ACTIVITY TOTAL:	0	3			
NAF Misawa, AIMD, 44331					
ACDU	0	4	AMS	7225	
SELRES	0	1	AMS	7225	
ACTIVITY TOTAL:	0	5			
NAS Barbers Point, AIMD, 44312					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Fallon, AIMD, 44317					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAS Lemoore, Sea Op Det, 46964					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			
NAS Lemoore, AIMD, 44321					
ACDU	0	6	AMS	7225	
NAS Lemoore, AIMD, 44321, FY01 Increment					
ACDU	0	1	AMS	7225	
NAS Lemoore, AIMD, 44321, FY02 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	8			
NAS North Island, AIMD, 44326					
ACDU	0	9	AMS	7225	
ACTIVITY TOTAL:	0	9			
NAS Point Mugu, AIMD, 44328					
ACDU	0	4	AMS	7225	
ACTIVITY TOTAL:	0	4			
NAS Whidbey Island, AIMD, 44329					
ACDU	0	6	AMS	7225	
ACTIVITY TOTAL:	0	6			
NAS Whidbey Island, Van Op Det, 31179					
ACDU	0	5	AMS	7225	
ACTIVITY TOTAL:	0	5			
NAVAIRES RAIMD, Santa Clara, 44489					
TAR	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAVSUPPFAC Diego Garcia, AIMD, 44337					
ACDU	0	3	AMS	7225	
SELRES	0	2	AMS	7225	
ACTIVITY TOTAL:	0	5			
NAWS A/C Op Det China Lake, 47677					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
FLEET SUPPORT ACTIVITIES - USMC					
H&HS MCAS Beaufort, 02031					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
MALS-14, 09114					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-26, 09167					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-29, 52841					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-31, 09131					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-41, 03007					
AR	0	1		6044	6094
	0	1		6094	6044
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-42, 09513					
AR	0	1		6044	6092
SMCR	0	1		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-49, 55555					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
Marine Aviation Det, Pax, 00000					
USMC	0	1		6044	
ACTIVITY TOTAL:	0	1			
H&HS MCAS Iwakuni, 62613					
USMC	0	1		6044	
ACTIVITY TOTAL:	0	1			
H&HS MCAS, Yuma, 02230					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			
MALS-11, 09111					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-12, 09112					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-13, 55585					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-16, 55583					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MALS-36, 09136					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-39, 09808					
USMC	0	2		6044	6092
ACTIVITY TOTAL:	0	2			
MALS-46, 03028					
USMC	0	1		6044	6094
AR	0	1		6094	6044
ACTIVITY TOTAL:	0	2			
MALSE Kaneohe Bay, HI, 09382					
USMC	0	1		6044	6092
ACTIVITY TOTAL:	0	1			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
NAVY OPERATIONAL ACTIVITIES - ACDU														
AMS	7225			29		2		0		0		0		0
AMS	7225	8303		11		0		0		0		0		0
AMS	7225	8377		1		0		0		0		0		0
AMS	7225	8378		0		5		0		0		0		0
AMS	7225	8379		37		0		0		0		0		0
AMS	7225	9549		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - ACDU														
AMS	7232	7225		2		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC														
	6044	6092		103		0		0		0		0		0
	6092	6044		0		1		1		1		1		1
	6094	6044		1		0		0		0		0		0
	6155	6044		0		3		0		0		0		2
USMC OPERATIONAL ACTIVITIES - AR														
	6092	6044		10		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU														
AMS	7222	7225		1		0		0		0		0		0
AMS	7225			175		0		2		1		0		0
AMS	7225	7232		4		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR														
AMS	7225			16		1		0		0		0		0
AMS	7225	7222		2		0		0		0		0		0
AMS	7225	7232		2		0		0		0		0		0
AMS	7232	7225		2		1		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES														
AMS	7225			5		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC														
	6044			2		0		0		0		0		0
	6044	6092		25		0		0		0		0		0
	6044	6094		1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR														
	6044	6092		1		0		0		0		0		0
	6044	6094		1		0		0		0		0		0
	6094	6044		2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR														
	6044	6092		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
SUMMARY TOTALS:													
NAVY OPERATIONAL ACTIVITIES - ACDU													
	79			7		0		0		0		0	
USMC OPERATIONAL ACTIVITIES - ACDU													
	2			0		0		0		0		0	
USMC OPERATIONAL ACTIVITIES - USMC													
	104			4		1		1		1		3	
USMC OPERATIONAL ACTIVITIES - AR													
	10			0		0		0		0		0	
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
	180			0		2		1		0		0	
NAVY FLEET SUPPORT ACTIVITIES - TAR													
	22			2		0		0		0		0	
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
	5			0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - USMC													
	28			0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - AR													
	4			0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - SMCR													
	1			0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
GRAND TOTALS:													
NAVY - ACDU		259		7		2		1		0		0	
NAVY - TAR		22		2		0		0		0		0	
NAVY - SELRES		5		0		0		0		0		0	
USMC - ACDU		2		0		0		0		0		0	
USMC - USMC		132		4		1		1		1		3	
USMC - AR		14		0		0		0		0		0	
USMC - SMCR		1		0		0		0		0		0	

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: Total Force Manpower Management System **DATE:** 1/3/2000
USMC, Table of Manpower Requirements 1/3/2000

ACTIVITY, UIC		PFYs	CFY00	FY01	FY02	FY03	FY04
OPERATIONAL ACTIVITIES - USMC							
HMM-162	09492	0	0	0	1	0	0
HMM-264	09374	0	0	1	0	0	0
HMM-266	53972	0	0	0	0	1	0
HMM-365	53923	0	0	0	0	0	1
HMT-204	52842	0	1	0	0	0	0
HMT-301	39797	0	0	0	0	0	1
TOTAL:		0	1	1	1	1	2
FLEET SUPPORT ACTIVITIES - NAVY							
CV 64 USS Constellation	03364	0	0	0	1	0	0
TOTAL:		0	0	0	1	0	0
FLEET SUPPORT ACTIVITIES - USMC							
MALS-46	03028	0	0	1	0	0	0
TOTAL:		0	0	1	0	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - NAVY					
NAVAIRENGSTA Lakehurst, 48558, FY00 Increment					
ACDU	0	2	AMS	7225	
ACTIVITY TOTAL:	0	2			
NAVFORCE ACTESTRON, 39785, FY00 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
VFA-204, 09032, FY00 Increment					
ACDU	0	1	AMS	7225	
ACTIVITY TOTAL:	0	1			
OPERATIONAL ACTIVITIES - USMC					
VMMT-204, 52842, FY03 Increment					
USMC	0	2		6155	6044
ACTIVITY TOTAL:	0	2			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
NAVY OPERATIONAL ACTIVITIES - ACDU													
AMS	7225		4		-4		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
	6044 6092		5		0		-1		-1		-1		-2
	6094 6044		1		-1		0		0		0		0
	6155 6044		0		0		0		0		-2		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AMS	7225		2		0		0		-2		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
	6044 6094		1		0		-1		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
	6094 6044		1		0		-1		0		0		0

SUMMARY TOTALS:

NAVY OPERATIONAL ACTIVITIES - ACDU													
			4		-4		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
			6		-1		-1		-1		-3		-2
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			2		0		0		-2		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
			1		0		-1		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
			1		0		-1		0		0		0

GRAND TOTALS:

NAVY - ACDU													
			6		-4		0		-2		0		0
USMC - USMC													
			7		-1		-2		-1		-3		-2
USMC - AR													
			1		0		-1		0		0		0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola, Florida, 63093														
INSTRUCTOR BILLETS														
ACDU														
AMS	7225	9502	0	9	0	2	0	2	0	2	0	2	0	2
USMC														
	6044	6092	0	4	0	4	0	4	0	4	0	4	0	4
TOTAL:			0	13	0	6	0	6	0	6	0	6	0	6

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY00 OFF	CFY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL
NATTC Pensacola, Florida, 63093													
	NAVY		28.1		28.4		27.9		27.6		27.6		27.6
	USMC		10.9		11.2		10.6		10.6		10.6		10.6
SUMMARY TOTALS:													
	NAVY		28.1		28.4		27.9		27.6		27.6		27.6
	USMC		10.9		11.2		10.6		10.6		10.6		10.6
GRAND TOTALS:													
			39.0		39.6		38.5		38.2		38.2		38.2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
AMS	7225		29	-2	27	0	27	0	27	0	27	0	27
AMS	7225	8303	11	0	11	0	11	0	11	0	11	0	11
AMS	7225	8377	1	0	1	0	1	0	1	0	1	0	1
AMS	7225	8378	0	5	5	0	5	0	5	0	5	0	5
AMS	7225	8379	37	0	37	0	37	0	37	0	37	0	37
AMS	7225	9549	1	0	1	0	1	0	1	0	1	0	1
AMS	7232	7225	2	0	2	0	2	0	2	0	2	0	2
Fleet Support Billets ACDU and TAR													
AMS	7222	7225	1	0	1	0	1	0	1	0	1	0	1
AMS	7225		191	1	192	2	194	-1	193	0	193	0	193
AMS	7225	7222	2	0	2	0	2	0	2	0	2	0	2
AMS	7225	7232	6	0	6	0	6	0	6	0	6	0	6
AMS	7232	7225	2	1	3	0	3	0	3	0	3	0	3
Staff Billets ACDU and TAR													
AMS	7225	9502	9	-7	2	0	2	0	2	0	2	0	2
Chargeable Student Billets ACDU and TAR													
			28	1	29	-1	28	0	28	0	28	0	28
SELRES Billets													
AMS	7225		5	0	5	0	5	0	5	0	5	0	5
TOTAL USN ENLISTED BILLETS:													
Operational			81	3	84	0	84	0	84	0	84	0	84
Fleet Support			202	2	204	2	206	-1	205	0	205	0	205
Staff			9	-7	2	0	2	0	2	0	2	0	2
Chargeable Student			28	1	29	-1	28	0	28	0	28	0	28
SELRES			5	0	5	0	5	0	5	0	5	0	5

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY00 +/-	CFY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM
c. OFFICER - USMC			Not Applicable										
d. ENLISTED - USMC													
Operational Billets USMC and AR													
	6044	6092	103	0	103	-1	102	-1	101	-1	100	-2	98
	6092	6044	10	1	11	1	12	1	13	1	14	1	15
	6094	6044	1	-1	0	0	0	0	0	0	0	0	0
	6155	6044	0	3	3	0	3	0	3	-2	1	2	3
Fleet Support Billets USMC and AR													
	6044		2	0	2	0	2	0	2	0	2	0	2
	6044	6092	26	0	26	0	26	0	26	0	26	0	26
	6044	6094	2	0	2	-1	1	0	1	0	1	0	1
	6094	6044	2	0	2	-1	1	0	1	0	1	0	1
Staff Billets USMC and AR													
	6044	6092	4	0	4	0	4	0	4	0	4	0	4
Chargeable Student Billets USMC and AR													
			11	0	11	0	11	0	11	0	11	0	11
SMCR Billets													
	6044	6092	1	0	1	0	1	0	1	0	1	0	1
TOTAL USMC ENLISTED BILLETS:													
Operational			114	3	117	0	117	0	117	-2	115	1	116
Fleet Support			32	0	32	-2	30	0	30	0	30	0	30
Staff			4	0	4	0	4	0	4	0	4	0	4
Chargeable Student			11	0	11	0	11	0	11	0	11	0	11
SMCR			1	0	1	0	1	0	1	0	1	0	1

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
COURSE LENGTH: 14.8 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.30

TRAINING		ACDU/TAR	CFY00		FY01		FY02		FY03		FY04	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola,												
	NAVY	ACDU		98		97		96		96		96
		TAR		9		8		8		8		8
		SELRES		1		0		1		0		1
	USMC	USMC		36		35		35		35		35
		AR		4		3		3		3		3
		SMCR		0		0		0		0		0
		TOTAL:		148		143		143		142		143

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the NDI Program and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
107		105		104		104		104		ATIR
96		95		94		94		94		Output
28.4		27.9		27.6		27.6		27.6		AOB
28.4		27.9		27.6		27.6		27.6		Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		1		0		1		ATIR
1		0		1		0		1		Output
0.3		0.0		0.3		0.0		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY00		FY01		FY02		FY03		FY04		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
40		38		38		38		38		ATIR
40		38		38		38		38		Output
11.2		10.6		10.6		10.6		10.6		AOB
11.2		10.6		10.6		10.6		10.6		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the NDI Program and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
001	Tester, Composite Laminate	04	Apr 86	GFE	Onboard
002	Detector, Ultrasonic Flaw	11	Apr 86	GFE	Onboard
003	Detector, Metal Flaw	08	Apr 86	GFE	Onboard
004	Charger, Battery	05	Apr 86	GFE	Onboard
005	Ultrasonic Thickness Gauge	07	Apr 86	GFE	Onboard
006	Block, Test Ultrasonic	06	Apr 86	GFE	Onboard
007	Reference Plate	09	Apr 86	GFE	Onboard
008	Ultrasonic Test Block	11	Apr 86	GFE	Onboard
009	Ultrasonic Test Block S	03	Apr 86	GFE	Onboard
010	Test Block, Ultrasonic	10	Apr 86	GFE	Onboard
011	Test Block, Ultrasonic 19	04	Apr 86	GFE	Onboard
012	Test Block, Ultrasonic TB1004	03	Apr 86	GFE	Onboard
013	Test Block, Ultrasonic TB1069	03	Apr 86	GFE	Onboard
014	Flaw Detector	01	Apr 86	GFE	Onboard
015	Test Set, Ultrasonic	08	Apr 86	GFE	Onboard
016	Detector, Flaw Eddy Current	03	Apr 86	GFE	Onboard
017	Tester, Eddy Current	05	Apr 86	GFE	Onboard
018	Detector, Eddy Current Flaw	08	Apr 86	GFE	Onboard
019	Tester, Eddy Current ED-520	11	Apr 86	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
020	Instrument, Eddy Current	10	Apr 86	GFE	Onboard
021	Defectometer	01	Apr 86	GFE	Onboard
022	Tester, Electrical, Conductivity	01	Apr 86	GFE	Onboard
023	Tester, Eddy Current	01	Apr 86	GFE	Onboard
024	Meter, Radiac	06	Apr 86	GFE	Onboard
025	Meter, Radiac SM-200	06	Apr 86	GFE	Onboard
026	Meter, X-Ray Survey	05	Apr 86	GFE	Onboard
027	Tube Head Stand	03	Apr 86	GFE	Onboard
028	Tube Head Stand 200160150TS	01	Apr 86	GFE	Onboard
029	Processor, Dry Silver	01	Apr 86	GFE	Onboard
030	Processing Machine, X-Ray	01	Apr 86	GFE	Onboard
031	X-Ray Booth	02	Apr 86	GFE	Onboard
032	X-Ray Apparatus	04	Apr 86	GFE	Onboard
033	X-Ray Apparatus GXR76C	04	Apr 86	GFE	Onboard
034	Charger, Radiac Detector	04	Apr 86	GFE	Onboard
035	Densitometer, X-Ray	08	Apr 86	GFE	Onboard
036	Penetrameter	01	Apr 86	GFE	Onboard
037	Penetrameter PS501	01	Apr 86	GFE	Onboard
038	Viewer, X-Ray Film	09	Apr 86	GFE	Onboard
040	Processing Machine, X-Ray Film 1635AS100-1	01	Apr 86	GFE	Onboard
041	Tank, Film Processing	01	Apr 86	GFE	Onboard
042	Dryer, X-Ray Film	01	Apr 86	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
043	Crane, Tube Head	01	Apr 86	GFE	Onboard
044	Aircraft, Trainer	01	Apr 86	GFE	Onboard
045	Reference Standards	01	Apr 86	GFE	Onboard
046	Flaw Detector	04	Apr 86	GFE	Onboard
048	Flaw Detector MARK II C	08	Apr 86	GFE	Onboard
049	Tester, Composite	02	Apr 86	GFE	Onboard
050	Tuning Kit Analyzer	02	Apr 86	GFE	Onboard
051	Radiometer, Photometer	01	Apr 86	GFE	Onboard
052	Borescope Light	03	Apr 86	GFE	Onboard
053	Borescope Video	04	Apr 86	GFE	Onboard
054	Borescope, Rigid	03	Apr 86	GFE	Onboard
055	Borescope, Flexible	04	Apr 86	GFE	Onboard
056	Rhiele Hardness Tester	01	Apr 86	GFE	Onboard
057	Hardness Tester	02	Apr 86	GFE	Onboard
058	Hardness Tester	01	Apr 86	GFE	Onboard
059	Leak Detector	04	Apr 86	GFE	Onboard
060	Leak Detector, Ultrasonic	02	Apr 86	GFE	Onboard
061	Cleaning Machine, Ultrasonic	01	Apr 86	GFE	Onboard
062	Fluorescent Inspection Unit, Stationary	01	Apr 86	GFE	Onboard
063	Test Kit, Penetrant	05	Apr 86	GFE	Onboard
064	Meter, Ultraviolet	03	Apr 86	GFE	Onboard
065	Kit, Optic Micrometer	04	Apr 86	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
066	Ottoscope	02	Apr 86	GFE	Onboard
067	Magnetic Particle Inspection Probe	06	Apr 86	GFE	Onboard
068	Magnetic Particle Inspection Unit Stationary	02	Apr 86	GFE	Onboard
069	Stereo Scope, Microscope	04	Apr 86	GFE	Onboard
070	Light, Microscope	04	Apr 86	GFE	Onboard
071	Mobile Magnetic Particle Unit	01	Apr 86	GFE	Onboard
072	Mobile Magnetic Particle Unit KCH-3D	01	Apr 86	GFE	Onboard
073	Ultraviolet Light	02	Apr 86	GFE	Onboard
074	Quick Break Tester	01	Apr 86	GFE	Onboard
075	Meter, Tester Shunt	01	Apr 86	GFE	Onboard
076	Standard Set, Eddy Current	01	Dec 99	GFE	Onboard
077	Unit Cell Construction Display	01	Dec 99	GFE	Onboard
078	X-ray Apparatus (LORAD)	02	Dec 99	GFE	Onboard
079	Film Processor (AGFA)	02	Dec 99	GFE	Onboard
080	X-ray Apparatus E326	01	Dec 99	GFE	Onboard
081	View Light 2	01	Dec 99	GFE	Onboard
082	Radiac Set	01	Dec 99	GFE	Onboard
083	Radiac Meter (Cut away)	01	Dec 99	GFE	Onboard
084	Sign Int Illumination (X-ray warning)	02	Dec 99	GFE	Onboard
085	Rotor Head Assembly (H-46)	01	Dec 99	GFE	Onboard
086	Light Source, Borescope	01	Dec 99	GFE	Onboard
087	Light Source	01	Dec 99	GFE	Onboard
088	Lamp Inspection 5900	01	Dec 99	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
089	Casio Calculator	28	Dec 99	GFE	Onboard
090	Caliper Indicator	08	Dec 99	GFE	Onboard
091	Caliper Dial	14	Dec 99	GFE	Onboard
092	Caliper Vernier Type 1	05	Dec 99	GFE	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
35-mm slides	02	Dec 99	Onboard
Course Curriculum Outlines	01	Dec 99	Onboard
Instructor Lesson Guides	13	Dec 99	Onboard
Student Evaluations	40	Dec 99	Onboard
Student Guides	13	Dec 99	Onboard
Transparencies	13	Dec 99	Onboard
Films	04	Dec 99	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
ASTM E 1417 Liquid Penetrate Examination	Hard copy	10	Dec 99	Onboard
ASTM E 1444-94a Magnetic Particle Inspection	Hard copy	10	Dec 99	Onboard
MIL-HDBK-23A Structural Sandwich Composite	Hard copy	10	Dec 99	Onboard
NA 00-25-100 Naval Air Systems Command Technical Manual	Hard copy	01	Apr 86	Onboard
NA 00-25DRT-1 Automatic Distribution Requirements Tables	Hard copy	01	Apr 86	Onboard
NA 00-500 B Naval Aeronautic Publication Index	Hard copy	01	Apr 86	Onboard
NA 01-1A-16 Nondestructive Inspection Methods	Hard copy	45	Apr 86	Onboard
NA 01-245FDA-3-1.1 General Information Navy Models F-4J, F-4N, F-4S, And RF-4B Aircraft	Hard copy	01	Apr 86	Onboard
NA 01-245FDA-3-1.4 General Information Navy Models F-4J, F-4N, F-4S and RF-4B Aircraft	Hard copy	01	Apr 86	Onboard
NA 01-245FDD-6-4 Phased Maintenance Requirements Cards Model F-4N, F-4J, F-4S Aircraft	Hard copy	01	Apr 86	Onboard
NA 17-15-16 Portable Type III Magnetic Inspection Unit KCH-3D	Hard copy	10	Dec 99	Onboard
NA 17-15-17 Fluorescent Inspection Unit	Hard copy	01	Apr 86	Onboard
NA 17-15-43 Portable Magnetic Inspection Unit	Hard copy	01	Apr 86	Onboard
NA 17-15-49 Ultrasonic Flaw Detector Set AN/GSM-238	Hard copy	01	Apr 86	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 17-15-522 Digital portable X-ray Unit Air Cooled (LORAD 160)	Hard copy	10	Dec 99	Onboard
NA 17-15-55 Borescope Set, Fiber Optic Illumination AN/USM 404	Hard copy	01	Apr 86	Onboard
NA 17-15-57 Stationary Magnetic Inspection Unit Model H71OG	Hard copy	01	Apr 86	Onboard
NA 17-15-59 Borescope Set, Fiber Optic Illumination AN/USM 404	Hard copy	01	Apr 86	Onboard
NA 17-15-7 Portable Fluorescent Penetrant Inspection Kit	Hard copy	10	Apr 86	Onboard
NA 17-15-89 Portable Magnetic Inspection Unit TTU 432/E	Hard copy	10	Dec 99	Onboard
NA 17-15-91 150 KVP Radiographic X-ray Apparatus A/E 99D-1	Hard copy	10	Dec 99	Onboard
NA 17-15-92 Composite Material Bonded Joint Tester TTU 516/E Bondmaster	Hard copy	01	Dec 99	Onboard
NA 17-15-95 Eddy Current Flaw Detector TTU 507/E (PD214)	Hard copy	10	Dec 99	Onboard
NA 17-15BD-18 Leak Detector TTU-332/E P/N 100-6	Hard copy	01	Apr 86	Onboard
NA 17-600-149-6-1 Ultrasonic Flaw Detector MXU-715/E (MAGNAFLUX)	Hard copy	01	Apr 86	Onboard
NA 17-600-149-6-2 Ultrasonic Flaw Detector MXU-715/E (MAGNAFLUX)	Hard copy	01	Apr 86	Onboard
NA 17-600-176-6-1 Composite Material Bonded Joint Tester TTU 516/E Bondmaster	Hard copy	01	Dec 99	O board
NA 17-600-176-6-2 Composite Material Bonded Joint Tester TTU 516/E Bondmaster	Hard copy	01	Dec 99	O board

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA 17-600-149-6-1 Ultrasonic Flaw Detector MXU-715/E (MAGNAFLUX)	Hard copy	01	Apr 86	Onboard
NA 17-600-149-6-2 Ultrasonic Flaw Detector MXU-715/E (MAGNAFLUX)	Hard copy	01	Apr 86	Onboard
NA 17-600-176-6-1 Composite Material Bonded Joint Tester TTU 516/E Bondmaster	Hard copy	01	Dec 99	O board
NA 17-600-176-6-2 Composite Material Bonded Joint Tester TTU 516/E Bondmaster	Hard copy	01	Dec 99	O board
NA 17-600-185-6-1 Eddy Current Flaw Detector TTU 507/E (PD214)	Hard copy	01	Dec 99	O board
NA 17-600-185-6-2 Eddy Current Flaw Detector TTU 507/E (PD214)	Hard copy	01	Dec 99	O board
NA 17-600-50-6-1 Ultrasonic Flaw Detector AN/GSM-238	Hard copy	01	Apr 86	Onboard
NA 17-600-50-6-2 Ultrasonic Flaw Detector AN/GSM-238	Hard copy	01	Apr 86	Onboard
NA 17-600-99-6-1 X-Ray Unit Portable 150 KVP	Hard copy	01	Apr 86	Onboard
NA 19-5-25 X-Ray Film Illuminator	Hard copy	01	Apr 86	Onboard
NA 19-600-LPX160-6-1 Digital Portable X-ray Unit (LORAD 160)	Hard copy	01	Dec 99	Onboard
NAS 410 NAS Certification of Nondestructive Test Personnel	Hard copy	10	Dec 99	Onboard
NAVEDTRA 12338 Aviation Structural Mechanic 3 & 2 Rate Training Manual	Hard copy	10	Dec 99	Onboard
NAVEDTRA 10069-D1 Mathematics, Volume 1	Hard copy	01	Dec 99	Onboard
NAVEDTRA 12010-B Aviation Maintenance Ratings Fundamentals	Hard copy	01	Dec 99	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-603-3191, Aircraft Nondestructive Inspection Technician Class C2
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
Operators Manual Ultrasonic Flaw Detector USN-52	Hard copy	08	Dec 99	Onboard
OPNAVINST 4790.2 Naval Aviation Maintenance Program	Hard copy	01	Dec 99	Onboard
Parker Probe Operating Instruction Manual Magnetic Inspection Unit	Hard copy	10	Dec 99	Onboard
QPL-AMS 2644-1 Qualified Product List	Hard copy	10	Dec 99	Onboard
SAE AMS Liquid Penetrant Inspection Materials	Hard copy	10	Dec 99	Onboard
Structurix NDT M Automatic Film Processor (AGFA)	Hard copy	10	Dec 99	Onboard
TO 1F-4C-3-1-1 Structural Repair Organizational and Field General Information	Hard copy	10	Dec 99	Onboard
TO 1F-4C-3-1-2 Structural Repair Organizational and Field Fixed Structures F4	Hard copy	10	Dec 99	Onboard
TO 1F-4C-3-1-3 Structural Repair Organizational and Field Door and Removable Panels F4	Hard copy	10	Dec 99	Onboard
TO 1F-4C-3-1-4 Structural Repair Organizational and Field Control Surfaces and Removable Structural Components	Hard copy	10	Dec 99	Onboard
TO 1F-4C-3-1-4 Structural Repair Organizational and Field Typical Repairs and Repair of Special Structures	Hard copy	01	Dec 99	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
TSA	Conducted TECHEVAL	Jan 84	Complete
OPO	Programmed manpower and training resource requirements	Aug 84	Complete
PDA	Conducted analysis of MPT requirements	Aug 84	Complete
TSA	Conducted follow-on training	Apr 86	Complete
TSA	Delivered curricula materials	Apr 86	Complete
TSA	Delivered training devices	Apr 86	Complete
TSA	Delivered TTE	Apr 86	Complete
TSA	Installed TTE	Apr 86	Complete
DA	Established MPT Advisory Board, as needed	Aug 86	Complete
TSA	Conducted initial training	Aug 86	Complete
DA	Began Fleet introduction	FY86	Complete
OPO	Approved and promulgate NTSP	Oct 86	Complete
OPO	Chaired NTPC	FY87	Complete
TSA	Conducted PD214 Eddy Current Flaw Detector TECHEVAL	Apr 95	Complete
PDA	Developed Draft NTSP (update)	Oct 99	Complete
PDA	Developed Proposed NTSP	Feb 00	Complete
OPO	Approved and promulgate NTSP	May 00	Complete

PART VI - ACTION ITEMS / ACTION REQUIRED

ACTION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CAPT Owen Fletcher Head, Plans, Policy, and Fleet Maintenance Support CNO, N881B fletcher.owen@hq.navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604-6994
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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CAPT Robert Gibson Deputy Assistant, Chief of Military Personnel for Distribution NAVPERSCOM, PERS-4B p4b@persnet.navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606
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NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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